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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/482,162	01/12/2000	Kikuo Kaise	SON-1720	6631
75	590 05/22/2002			
Ronald P. Kananen, Esq.			EXAMINER	
Rader, Fishman & Grauer The Lion Building			CHUNG, DAVID Y	
1233 20th Stree Washington, De	et, N.W. Suite 501 C 20036		ART UNIT PAPER NUMBER	
-			2871	
			DATE MAILED: 05/22/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
		09/482,162	KAISE ET AL.
Office A	Action Summary	Examiner	Art Unit
		David Chung	2871
The MAILIN Period for Reply	G DATE of this commun		with the correspondence address
A SHORTENED STHE MAILING DATES Extensions of time may after SIX (6) MONTHS fire of the period for reply spread to the period	TE OF THIS COMMUNI be available under the provisions from the mailing date of this comn ecified above is less than thirty (3	of 37 CFR 1.136(a). In no event, however, may nunication.  O) days, a reply within the statutory minimum of the statutory	a reply be timely filed
<ul> <li>Failure to reply within the</li> <li>Any reply received by the</li> </ul>	e set or extended period for reply	will, by statute, cause the application to become fifter the mailing date of this communication, ever	ABANDONED (35 U.S.C. & 133).
	to communication(s) fil	led on	
2a) This action i		2b)⊠ This action is non-final.	
· <u> </u>		, <u> </u>	natters, prosecution as to the merits is
	cordance with the pract	tice under Ex parte Quayle, 1935 (	C.D. 11, 453 O.G. 213.
4) Claim(s)	is/are pending in the	e application.	
4a) Of the abo	ove claim(s) is/a	re withdrawn from consideration.	
5) Claim(s)	is/are allowed.		
6)⊠ Claim(s) <u>1-23</u>	is/are rejected.		
7) Claim(s)	is/are objected to.		
8) Claim(s)	are subject to restric	tion and/or election requirement.	
pplication Papers			
9) The specificat	ion is objected to by the	e Examiner.	
10)☐ The drawing(s	s) filed on is/are:	a) ☐ accepted or b) ☐ objected to by	y the Examiner.
		ection to the drawing(s) be held in abo	• •
		d on is: a) approved b)	disapproved by the Examiner.
	_	quired in reply to this Office action.	
	eclaration is objected to	by the Examiner.	
riority under 35 U.S.			
		for foreign priority under 35 U.S.C	C. § 119(a)-(d) or (f).
a)∏ All b)∏ S	Some * c) None of:		
1.☐ Certifie	d copies of the priority	documents have been received.	•
2. Certifie	d copies of the priority	documents have been received in	Application No
app	dication from the Internation	of the priority documents have bee ational Bureau (PCT Rule 17.2(a)) n for a list of the certified copies no	).
		·	
		guage provisional application has	C. § 119(e) (to a provisional application).
15) ☐ Acknowledgme		or domestic priority under 35 U.S.C	
ttachment(s)		<u>_</u>	
<b>⊠</b>	_		
	Cited (PTO-892) 's Patent Drawing Review (P Statement(s) (PTO-1449) Pa	TO-948) 5) Notice of	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)

Application/Control Number: 09/482,162

Art Unit: \*\*\*

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-23 rejected under 35 U.S.C. 103(a) as being unpatentable over Tsuboyama (U.S. 4,744,639). Tsuboyama discloses a ferroelectric liquid crystal device having a flattening layer. This flattening layer consists of orientation control portions 36 and spacer members 38. See figures 3A and 3B. Tsuboyama teaches forming the flattening layer using a number of organic materials such as acrylic resin. See column 6, lines 25 – 35. Figures 4A and 4B show an example of the spacers being formed of different material than the orientation control layer. It is common knowledge within the art that the orientation control layer can be formed from inorganic material as well as organic material. Although Tsuboyama does not disclose a light shielding region, light shielding layers were notoriously well known and obvious for the purpose of preventing light leakage in order to obtain good contrast. Therefore, it would have been obvious to those of ordinary skill in the art at the time of invention to add a light shielding layer to the liquid crystal display device of Tsuboyama in order to achieve better contrast.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Chung whose telephone number is (703) 306-0155. The examiner can normally be reached on Monday-Friday from 8:30 am to 5:00 pm.

David Chung GAU 2871 03/19/02 Kenneth Parker Primary Examiner GAU 2871